

# PATENT COOPERATION TREATY

## PCT

### INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference <b>ZB/2002/642</b>	<b>FOR FURTHER ACTION</b>	see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.
International application No. <b>PCT/SG02/00091</b>	International filing date ( <i>day/month/year</i> ) <b>14 May 2002</b>	(Earliest) Priority Date ( <i>day/month/year</i> ) <b>14 May 2001</b>
Applicant <b>JOHNS HOPKINS SINGAPORE PTE LTD et al.</b>		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of **4** sheets.

☐ It is also accompanied by a copy of each prior art document cited in this report.

#### Basis of the report

a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing:

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

☐ Certain claims were found unsearchable (See Box I).

3. ☐ Unity of invention is lacking (See Box II).

4. With regard to the title, ☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the abstract, ☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the drawings to be published with the abstract is Figure No. **1**

☒ as suggested by the applicant.

☐ None of the figures

☐ because the applicant failed to suggest a figure

☐ because this figure better characterizes the invention

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/SG02/00091

**A. CLASSIFICATION OF SUBJECT MATTER**

Int. Cl. <sup>7</sup>: C08G 79/04, A61K 47/48, A61P 21/06, 11/06, 9/10, 1/08, 35/00, 11/02, 1/12, 1/10

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

IPC: C08G 79/04, A61K 47/48

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

WPAT & JAPIO (Search terms: phosphoester, biodegradable)

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 194 581 A (LEONG) 16 March 1993 See column 4 line 19 to column 5 line 25, column 6 lines 29-68 and column 7 lines 36-55	1-70
X	US 5 952 451 A (ZHAO) 14 September 1999 See column 4 line 55 to column 6 line 30 and column 16 lines 40-54	1-70
X	US 6 166 173 A (MAO et al.) 26 December 2000 See claims 1, 5, 75 and 78	1-70

☒ Further documents are listed in the continuation of Box C

☒ See patent family annex

- \* Special categories of cited documents:
- |   |  |
|---|--|
| "A" document defining the general state of the art which is not considered to be of particular relevance  | "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention  |
| "E" earlier application or patent but published on or after the international filing date   | "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone   |
| "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) | "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art |
| "O" document referring to an oral disclosure, use, exhibition or other means  | "&" document member of the same patent family  |
| "P" document published prior to the international filing date but later than the priority date claimed  |  |

Date of the actual completion of the international search  
14 June 2002

Date of mailing of the international search report  
24 JUN 2002

Name and mailing address of the ISA/AU  
AUSTRALIAN PATENT OFFICE  
PO BOX 200, WODEN ACT 2606, AUSTRALIA  
E-mail address: pct@ipaaustralia.gov.au  
Facsimile No. (02) 6285 3929

Authorized officer

ALBERT S. J. YONG  
Telephone No: (02) 6283 2160

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/SG02/00091

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 98/46286 A (JOHNS HOPKINS UNIVERSITY SCHOOL OF MEDICINE) 22 October 1998 See claims 1, 30 and 63	1-70
X	WO 98/48859 A (GUILFORD PHARMACEUTICALS INC.) 5 November 1998 See claim 1	1-70
X	WO 99/00446 A (GUILFORD PHARMACEUTICALS INC.) 7 January 1999 See page 8 line 17 to page 10 line 4, claims 1 and 20.	1-11, 21-31
X	WO 00/19976 A (GUILFORD PHARMACEUTICALS INC.) 13 April 2000 See page 11 lines 23-25 and claims 1, 15, 28 and 43.	1-70
X	WO 00/57852 A (GUILFORD PHARMACEUTICALS INC.) 5 October 2000 See page 18 line 21 to page 19 line 32, claims 1 and 17	1-70

## INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/SG02/00091

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report				Patent Family Member			
US	5194581	CA	2011171	EP	386757	JP	3128938
		US	5256765				
US	5952451	AU	82611/98	EP	990008	US	6028163
		WO	9900446				
US	6166173	AU	69449/98	BR	9809390	EP	971969
		HU	200001412	NO	994803	NZ	500674
		WO	9844020	US	6376644		
WO	9846286	AU	71206/98	US	5912225	US	6238687
WO	9848859	AU	71771/98	BR	9809017	EP	980269
		HU	200001299	NO	995301	PL	336596
WO	9900446	AU	82611/98	EP	990008	US	6028163
		US	5952451				
WO	200019976	AU	62833/99	EP	1117441	US	6153212
WO	200057852	AU	200037625	BR	200009213	CZ	20013260
		EP	1185249	NO	20014662		
END OF ANNEX							